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L6 l1 and (head with orientation).clm. 31 L6

L5 L3 not L4 29 L5

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L46: Entry 1 of 3

File: DWPI

Apr 28, 2005

DERWENT-ACC-NO: 2005-401886

DERWENT-WEEK: 200541

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TITLE: Unmanned aerial vehicle navigating method, involves reading starting position of vehicle from receiver on vehicle, and piloting vehicle from starting position to waypoint, based on navigation algorithm

INVENTOR: BODIN, W K; REDMAN, J J W ; THORSON, D C

PATENT-ASSIGNEE: INT BUSINESS MACHINES CORP (IBMC)

PRIORITY-DATA: 2003US-0692169 (October 23, 2003)

[Search Selected](#) [Search ALL](#) [Clear](#)**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> US 20050090972 A1	April 28, 2005		030	G01C021/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20050090972A1	October 23, 2003	2003US-0692169	

INT-CL (IPC): G01C 21/00

ABSTRACTED-PUB-NO: US20050090972A

BASIC-ABSTRACT:

NOVELTY - The method involves receiving a user's selection of a map pixel representing a waypoint for unmanned aerial vehicle (UAV) navigation, at a remote control device. The pixel is mapped to waypoint coordinates, and the waypoint is transmitted to the UAV. A starting position of the UAV, is read from a GPS receiver on the UAV, and the UAV is piloted from the starting position to the waypoint, based on a navigation algorithm.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(A) a UAV navigating system comprising a global positioning system (GPS) receiver and remote control device

(B) a computer program product for navigating a UAV.

USE - Used for navigating an unmanned aerial vehicle (UAV).

ADVANTAGE - The UAV is piloted from the starting position to the waypoint, based on

a navigation algorithm, hence enabling the operators to efficiently control the manual operation of the UAV.

DESCRIPTION OF DRAWING(S) - The drawing shows a flow chart for navigating a UAV.

ABSTRACTED-PUB-NO: US20050090972A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg. 4/15

DERWENT-CLASS: S02 T01 W05 W06

EPI-CODES: S02-B08G; T01-J07D3; T01-J12B; T01-S03; W05-D06G5; W05-D07D; W05-D08C; W06-A03A5C; W06-B01B1;

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L46: Entry 2 of 3

File: DWPI

Oct 31, 2006

DERWENT-ACC-NO: 2005-401885

DERWENT-WEEK: 200672

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TITLE: UAV navigating method, involves calculating heading based upon starting point, waypoint coordinates and navigation algorithm, identifying flight control instructions on heading, and transmitting instructions to UAV

INVENTOR: BODIN, W K; REDMAN, J J W ; THORSON, D C

PATENT-ASSIGNEE: INT BUSINESS MACHINES CORP (IBMC)

PRIORITY-DATA: 2003US-0692118 (October 23, 2003)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>US 7130741 B2</u>	October 31, 2006		000	G01C021/28
<input type="checkbox"/> <u>US 20050090945 A1</u>	April 28, 2005		031	G01C021/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 7130741B2	October 23, 2003	2003US-0692118	
US20050090945A1	October 23, 2003	2003US-0692118	

INT-CL (IPC): G01C 21/00; G01C 21/28

ABSTRACTED-PUB-NO: US20050090945A

BASIC-ABSTRACT:

NOVELTY - The method involves receiving a user's selection of a graphical user interface map pixel in a remote control device e.g. mobile telephone (110). A heading is calculated based upon starting point received from a global position system receiver on a UAV (100), coordinates of waypoint and a navigation algorithm. Flight control instructions are identified on the heading and transmitted from the remote control device to the UAV.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (A) a system for navigating a UAV
- (B) a computer program product for navigating a UAV.

USE - Used for navigating a UAV.

ADVANTAGE - The method automatically navigates the UAV with a single keystroke or mouseclick from operator.

DESCRIPTION OF DRAWING(S) - The drawing shows components of a UAV navigating system.

UAV 100

Workstation 104

Mobile telephone 110

Laptop computer 116

Satellites 190, 192

ABSTRACTED-PUB-NO: US20050090945A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/15

DERWENT-CLASS: S02 T01 W05 W06

EPI-CODES: S02-B08G; T01-J07D3; T01-J12B; T01-S03; W05-D06G5; W05-D07D; W05-D08C; W06-B01B1;

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